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PATENT

ATTORNEY DOCKET NO.: 053665-5010-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Louis S. KUCERA et al.

Confirmation No.: Not Available

Application No.: 10/478,738 ✓

Group Art Unit: Not Available

Filed: December 30, 2003

Examiner: Not Available

For: COMPOSITIONS AND METHODS OF
DOUBLE-TARGETING VIRUS
INFECTIONS AND CANCER CELLS

Attorney Docket No.: 053665-5010-02

INFORMATION DISCLOSURE STATEMENT

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Sir:

Pursuant to Applicants' duty of disclosure under 37 C.F.R. § 1.97 and 1.98, enclosed is a supplemental Form PTO-1449 which lists 245 references. Copies of the foreign patent documents and other references have been provided for the Examiner's convenience in U.S. Application No. 09/844,201, which is the parent of this application. Pursuant to the rules pertaining to applications filed after June 30, 2003, copies of the U.S. references are not enclosed. If requested, Applicants will provide the examiner with copies of the references.

It is respectfully requested that these references be made of record in this application by the Examiner's completion and return of the Form PTO-1449.

This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b), *i.e.*, before the mailing of a first action on the merits. Accordingly, no fee is due for the submission of this Information Disclosure Statement. If any fee is deemed to be required for this submission, please charge such fee to Morgan, Lewis & Bockius LLP Deposit Account No. 50-0310.

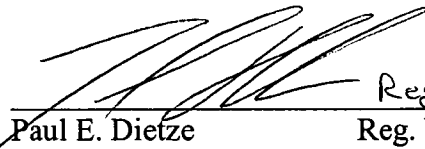
Respectfully submitted,

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By:

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LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO.	APPLICATION NO
	053665-5010-02	10/478,738
	APPLICANT	
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	December 30, 2003	Not Available

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A01	2,086,585	07/13/1937	Taub et al.	260	127	
	A02	2,087,132	07/13/1937	Taub et al.	260	127	
	A03	2,108,765	02/15/1938	Domagk	167	30	
	A04	2,209,383	07/30/1940	Bock	8	116	
	A05	2,439,969	04/20/1948	Fourneau	260	338	
	A06	2,445,393	07/20/1948	Fourneau	260	338	
	A07	2,513,747	07/04/1950	Sallman et al.	260	338	
	A08	2,606,909	08/12/1952	Blicke	260	338	
	A09	2,689,790	09/21/1954	Mowry et al.	71	2.7	
	A10	2,950,253	08/23/1960	Kling et al.	252	152	
	A11	3,054,678	09/18/1962	Michener et al.	99	150	
	A12	3,694,473	09/26/1972	Eibl et al.	260	403	
	A13	4,093,714	06/06/1978	Tolman et al.	424	180	
	A14	4,096,278	06/20/1978	Queuille	424	329	
	A15	4,119,714	10/10/1978	Kny et al.	424	199	
	A16	4,159,988	07/03/1979	Eibl et al.	260	340.9R	
	A17	4,221,732	09/09/1980	Oette et al.	260	403	
	A18	4,235,877	11/25/1980	Fullerton	424	89	
	A19	4,291,024	09/22/1981	Turcotte	424	180	
	A20	4,329,302	05/11/1982	Hanahan et al.	260	925	
	A21	4,426,525	01/17/1984	Hozumi et al.	546	22	
	A22	4,444,766	04/24/1984	Bosies et al.	424	211	
	A23	4,471,113	09/11/1984	MacCoss	536	29	
	A24	4,540,521	09/10/1985	Garst et al.	260	459	
	A25	4,559,157	12/17/1985	Smith et al.	424	401	
	A26	4,608,392	8/26/86	Jacquet et al.	424	401	
	A27	4,619,917	10/28/1986	Lee et al.	514	77	
	A28	4,622,392	11/11/1986	Hong et al.	536	28.5	

EXAMINER

DATE CONSIDERED

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	December 30, 2003	Not Available

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A29	4,661,509	04/28/1987	Gordon et al.	514	397	
	A30	4,724,232	02/09/1988	Rideout et al.	514	50	
	A31	4,797,479	01/10/1989	Shuto et al.	536	28.5	
	A32	4,816,450	03/28/1989	Bell et al.	514	25	
	A33	4,820,508	04/11/1989	Wortzman	424	59	
	A34	4,826,823	05/02/1989	Cook et al.	514	46	
	A35	4,835,263	05/30/1989	Nguyen et al.	536	27	
	A36	4,837,023	06/06/1989	Eibl	424	439	
	A37	4,841,039	06/20/1989	Chu et al.	536	29	
	A38	4,880,782	11/14/1989	Eckstein et al.	514	45	
	A39	4,921,951	05/01/1990	Shuto et al.	536	28.5	
	A40	4,938,949	07/03/90	Borch et al.	514	476	
	A41	4,992,478	02/12/1991	Geria	514	782	
	A42	4,997,761	03/05/1991	Jett-Tilton	435	375	
	A43	5,026,687	6/25/1991	Yarchoan et al.	514	45	
	A44	5,034,394	07/23/1991	Daluge	514	261	
	A45	5,138,045	08/11/1992	Cook et al.	536	27	
	A46	5,221,696	06/22/1993	Ke et al.	514	786	
	A47	5,496,546	03/05/1996	Wang et al.	424	78.36	
	A48	5,512,671	04/30/96	Piantadosi	536	26.1	
	A49	5,614,548	03/25/1997	Piantadosi et al.	514	440	
	A50	5,633,388	05/27/1997	Diana et al.	548	305.7	
	A51	5,770,584	06/23/1998	Kucera et al.	514	77	
	A52	5,830,905	11/03/1998	Diana et al.	514	322	
	A53	5,846,964	12/08/1998	Ozeki	514	182	
	A54	5,891,874	04/06/1999	Colacino et al.	514	234.5	
	A55	5,922,757	07/13/1999	Chojkier	514	458	

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U.S. PATENT DOCUMENTS

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	A56	6,243,759	4/30/1999	Kucera et al.	514	77	
	A57	6,030,960	02/29/2000	Morris-Natschke et al.	514	77	
	A58	6,670,341	12/30/03	Kucera, et al.	514	77	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	B01	0 094 586	11/23/1983	EPO (English)				
	B02	0 109 255	05/23/1984	EPO (English)				
	B03	0 142 333	05/22/1985	EPO (English)				
	B04	0 145 303	06/19/1985	EPO (English)				
	B05	0 146 258	06/26/1985	EPO (English)				
	B06	0 252 310	01/13/1988	EPO				
	B07	0 310 109	04/05/1989	EPO (English)				
	B08	0 335 396	04/10/1989	EPO (English)				
	B09	0 350 287	01/10/1990	EPO				
	B10	0 348 859	01/03/1990	EPO (English)				
	B11	0 416 401	03/13/1991	EPO				
	B12	0 434 450	06/26/1991	EPO (English)				
	B13	0 506 704	07/11/1991	EPO				
	B14	0 632 048	01/04/1995	EPO (English)				
	B15	1,561,630	03/28/1969	France				
	B16	199 14 474	10/07/1999	Germany				
	B17	37 26 945 A1	02/23/1989	Germany				
	B18	39 34 820 A1	04/25/1991	Germany				
	B19	40 10 228 A1	10/02/1991	Germany				
	B20	2 239 243 A	06/26/1991	Great Britain				

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							YES	NO
	B21	42-13841	08/05/1967	Japan				
	B22	61-238793	10/24/1986	Japan				
	B23	1029312	01/31/1989	Japan				
	B24	49-100224	09/21/1974	Japan				
	B25	08-268890	10/15/1996	Japan				
	B26	10-101591	04/21/1998	Japan				
	B27	90/00555	01/25/1990	WIPO				
	B28	90/05736	05/31/1990	WIPO (English)				
	B29	90/15601	12/20/1990	WIPO (English)				
	B30	91/05558	05/02/1991	WIPO				
	B31	91/09602	07/11/1991	WIPO				
	B32	91/19726	12/26/1991	WIPO				
	B33	91/18914	12/12/1991	WIPO (English)				
	B34	92/03462	03/05/1992	WIPO				
	B35	92/06192	04/16/1992	WIPO (English)				
	B36	93/08807	05/13/1993	WIPO (English)				
	B37	93/00910	01/21/1993	WIPO				
	B38	93/16091	08/19/1993	WIPO				
	B39	93/16092	08/19/1993	WIPO				
	B40	93/17020	09/02/1993	WIPO (English)				
	B41	93/21191	10/28/1993	WIPO (English)				
	B42	WO 94/28908	12/22/1994	WIPO				
	B43	WO 98/22496	5/28/1998	WIPO (English)				
	B44	WO 98/17679	4/30/1998	WIPO (English)				
	B45	WO 99/07734	2/18/1999	WIPO (English)				

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	December 3, 2003	Not Available

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

C01	Aggarwal, S. K. et al., "Synthesis and Biological Evaluation of Prodrugs of Zidovudine," <u>J. Med. Chem.</u> , 33, 1505-10, 1990
C02	Alt M. et al., "Core Specific Antisense Phosphorothioate Oligodeoxynucleotides as Potent and Specific Inhibitors of Hepatitis C Viral Translation," <u>Archives of Virology</u> 142:589-599, 1997
C03	Alt M. et al., "Specific Inhibition of Hepatitis C Viral Gene Expression by Antisense Phosphorothioate Oligodeoxynucleotides," <u>Hepatology</u> 22:707-717, September 1995
C04	Amari et al., "Isolation of Experimental Anti-AIDS Glycerophospholipids by Micro-Preparative Reversed-Phase High-Performance Liquid Chromatography," <u>Journal of Chromatography</u> , 590, 153-161, 1992
C05	Anderson, L. J. et al., "Antigenic Characterization of Respiratory Syncytial Virus Strains with Monoclonal Antibodies," <u>Journal of Infectious Diseases</u> , 151:626-633, April 1985
C06	Attwood, M. R. et al., "The Design and Synthesis of Potent Inhibitors of Hepatitis C Virus NS3-4A Proteinase," <u>Antiviral Chemistry and Chemotherapy</u> 10:259-273, September 1999
C07	Bartlett, <u>Infectious Diseases in Clinical Practice</u> , 5:172-179, 1996
C08	Berdal et al., "Cyto Toxicity of Thio Ether Lyso Phospho Lipids in Leukemias and Tumors of Human Origin," <u>Cancer Research</u> , Vol. 43, 5538-5543, 1983.
C09	Berenguer, M. et al., "Hepatitis C Virus in the Transplant Setting," <u>Antiviral Therapy</u> 3(Suppl. 3):125-136, 1998
C10	Boldanova, N. B. et al., "Protective Effect of Phosphatidylcholine-Containing Liposomes in Experimental Toxic Hepatitis," <u>Vopr. Med. Khim</u> , 32, No. 3 (1986) <u>Chemical Abstracts</u> 105, p. 67, Abstract No. 35587k (1986)
C11	Bosies, E. et al., "Preparation of Lecithin Analogs as Retrovirucides and Virucides," <u>Chemical Abstracts</u> , 115CA; 72142p, 1991
C12	Braekman et al., <u>Proc. Amer. Soc. for Clinical Oncology</u> , Abstract # 810, 1997
C13	Capizzi, <u>Investigational New Drugs</u> 14: 249-256, 1996
C14	Chen, "Design and Synthesis of Novel Nucleoside Analogs as Potential Antiviral Agents," Abstract <u>American Assoc. of Pharmaceutical Scientists</u> , Vol. 9, No. 10, 1992
C15	Chu M. et al., "Isolation and Structure of SCH 351633: A Novel Hepatitis C Virus (HCV) NS3 Protease Inhibitor from the Fungus <u>Penicillium Griseofulvum</u> ," <u>Bioorganic and Medicinal Chemistry Letters</u> 9:1949-1952, 1999
C16	Chu M. et al., "Structure of Sch 68631: A New Hepatitis C Virus Proteinase Inhibitor from <u>Streptomyces</u> sp.," <u>Tetrahedron Letters</u> 37:7229-7232, 1996
C17	Coe et al., "Preparation of Nucleotide Mimics with Potent Inhibitory Activity Against HIV Reserve Transcriptase," <u>J. Chem. Soc. Perkin Trans 1</u> , 3378-3379, 1991.
C18	Crompton, S. et al., "Novel Lipid Analogs with Cytostatic and Cytocidal Activity," <u>Anticancer Research</u> , Vol. 8, No. 6, pp. 1361-1366, Nov.-Dec. 1988
C19	Daniel, L. W. et al., "Alkyl-Linked Diglycerides Inhibit Protein Kinase C Activation by Diacylglycerols," <u>Biochemical & Biophysical Research Communications</u> , 151, 291-97, Feb. 29, 1988
C20	DeClercq, <u>Journal of Medicinal Chemistry</u> 38: 2491-2517, 1995
C21	Del Pan et al., <u>Proc. Amer. Soc. for Clinical Oncology</u> , Abstract # 1384, 1997
C22	Dietzfelbinger, "Cytotoxic and Purging Effects of ET-18-OCH3 in Human Malignant Lymphoid Cell Lines in Vitro," Abstract 2472, <u>Proceedings of the American Assoc. for Cancer Res.</u> , 31, 416, March 1990
C23	Domawchowski J. B. et al., "Respiratory Syncytial Virus Infection: Immune Response, Immunopathogenesis and Treatment," <u>Clinical Microbiology Reviews</u> , 12:298-309, April 1999

EXAMINER

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Not Available

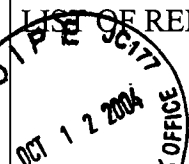
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

C24	Englund, J. A., "Prevention Strategies for Respiratory Syncytial Virus: Passive and Active Immunization," <u>J. Pediatr.</u> , 135:38-44, August 1999
C25	Eron et al., <u>AIDS</u> 12: F181-F189, 1998
C26	Falsey A. R. et al., "Acute Respiratory Tract Infection in Daycare Centers for Older Persons," <u>J Am Geriatric Soc.</u> , 43:30-36, 1995
C27	Falsey A. R. et al., "Viral Respiratory Infections in the Institutionalized Elderly: Clinical and Epidemiologic Findings," <u>J Am Geriatric Soc.</u> , 40:115-119, 1992
C28	Fauci, <u>Nature (New Biology)</u> , 384: 529-534, 1996
C29	Fields, A. P. et al., "Human Immunodeficiency Virus Induces Phosphorylation of its Cell Surface Receptor," <u>Nature</u> , 333, 278-80, 19 May 1988
C30	Galderisi U. et al., "Antisense Oligonucleotides as Therapeutic Agents," <u>Journal of Cellular Physiology</u> , 181:251-257, 1999
C31	Gill et al., <u>Annals of Internal Medicine</u> 107: 502-505, 1987
C32	Glezen W. P. et al., "Risk of Primary Infection and Reinfection with Respiratory Syncytial Virus," <u>Am J Dis Child</u> , 140:543-546, 1986
C33	Goodman and Gilman, <u>The Pharmacological Basis of Therapeutics</u> , Ninth Ed., 1996
C34	Gordeev, K. et al., "Synthesis of Thio Analogs of Platelet Activating Factor (PAF)," <u>Abstract Bioorg. Khim.</u> , Vol. 12, No. 7, pages 951-955, 1986
C35	Graham, F. L. et al., "A New Technique for the Assay of Infectivity of Human Adenovirus 5-DNA," <u>Virology</u> , Vol. 52, pp. 456-467, 1973
C36	Guerguerian, A. et al., "Ribavirin in Ventilated Respiratory Syncytial Virus Bronchiolitis: a Randomized, Placebo-Controlled Trial," <u>Am J Resp Crit Care Med.</u> , 160:829-834, 1999
C37	Hall C. B. et al., "Infectivity of Respiratory Syncytial Virus by Various Routes of Inoculation," <u>Infect Immun.</u> , 33:779-783, 1981
C38	Hall, C. B. et al., "Nosocomial Respiratory Syncytial Virus Infections," <u>N Engl J Med.</u> , 293:1343-1346, 1975
C39	Hall C. B. et al., "Respiratory Syncytial Virus Infections Within Families," <u>N Engl J Med.</u> , 294:414-419, 1976
C40	Hancock et al., "Analogues of Natural Lipids. VII. Synthesis of Cyclopentanoid Analogues of Phosphatidylcholine," <u>Journal of Lipid Research</u> , Vol. 23, 183-189, 1982
C41	Harada, S. et al., "Infection of HTLV-III/LAV in HTLV-I-Carrying Cells MT-2 and MT-4 and Application in a Plaque Assay," <u>Science</u> , 229, 563-566, 9 Aug. 1985
C42	Hayashi et al., "Antitumor Activity of a Novel Nucleotide Derivative, 5'-(1,2 Dipalmitoyl-sn-glycero-3-phospho)-5-fluorouridine (TJ14026) on Murine Tumors," <u>Biol. Pharm. Bull.</u> , 16(8), 778-81, 1993
C43	Henderson, F.W. et al., "Respiratory-Syncytial-Virus Infections, Reinfections, and Immunity: a Prospective, Longitudinal Study in Young Children," <u>N Engl J Med.</u> , 300:530-534, 1979
C44	Hendrickson, H., et al., "A Facile Asymmetric Synthesis of Glycerol Phospholipid via Tritylglycidol Prepared by the Asymmetric Epoxidation of Allyl Alcohol," <u>Abstract Chem. Phys. Lipids</u> , Vol. 53, No. 1, pages 115-120, 1990
C45	Himmelmann, "Studies on the Cross Resistance Pattern of Membrane-Toxic Lipids in Vitro," <u>Abstract 2448, Proceedings of the American Assoc. for Cancer Res.</u> , 31, 416, March 1990

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

C46	Hirsch, M. S. et al., "Antiviral Agents," <u>Fields Virology</u> , Third Edition, Lippincott, Raven Publishers, page 431-466, 1996
C47	Hong et al., <u>Journal of Medicinal Chemistry</u> 33: 1380-1386, 1990
C48	Hong et al., <u>Cancer Res.</u> 50: 4401-4406
C49	Hong, C. et al., "Nucleoside Conjugates. 15. Synthesis and Biological Activity of Anti-HIV Nucleoside Conjugates of Ether and Thioether Phospholipids," <u>Abstract J. Med. Chem.</u> , Vol. 39, No. 9, pages 1771-1777, 1996
C50	Hong, C. et al., "Nucleoside-Ether Lipid Conjugates as Biotransformed Prodrugs of Antitumor and Antiviral Nucleosides," <u>Abstract J. Lipid Mediators Cell Signaling</u> , Vol., 10, No. 1-2, pages 159-161, 1994
C51	Hostetler, et al., "Antiviral Activity of Phosphatidyl-Dideoxycytidine in Hepatitis B-infected Cells and Enhanced Hepatic Uptake in Mice," <u>Antiviral Research</u> , 59-65, 1994
C52	Hostetler et al., "Phosphatidylazidothymidine and Phosphatidyl-ddC: Assessment of Uptake in Mouse Lymphoid Tissues and Antiviral Activities in Human Immunodeficiency Virus-Infected Cells and in Rauscher Leukemia Virus-Infected Mice," <u>Antimicrobial Agents and Chemotherapy</u> , Dec. 2792-2797, 1994
C53	Hostetler et al., "Synthesis and Antiretroviral Activity of Phospholipid Analogs of Azidothymidine and Other Antiviral Nucleosides," <u>Journal of Biological Chemistry</u> , 265: 6112-6117, 1990
C54	Hostetler et al., "Phosphatidylazidothymidine: Mechanism of Antiretroviral Action in CEM Cells," <u>Journal of Biological Chemistry</u> , 266: 11714-11717, 1990
C55	Hruska, J. F. et al., "In Vivo Inhibition of Respiratory Syncytial Virus by Ribavirin," <u>Antimicrob Agents Chemother.</u> , 21:125-130, 1982
C56	Hsu, L. et al., "Synthesis of Anti-Restricted Pyrimidine Acyclic Nucleosides," <u>Journal of Organic Chemistry</u> , Vol. 57, No. 12, pp. 3354-3358, 1992
C57	IMPACT RSV Study Group, "Palivizumab, a Humanized Respiratory Syncytial Virus Monoclonal Antibody Reduces Hospitalization from Respiratory Syncytial Virus Infection in High-Risk Infants," <u>Pediatrics</u> , 102:531-537, 1998
C58	Jahne et al., "Preparation of Carbocyclic Phosphonate Nucleosides," <u>Tetrahedron Letters</u> , Vol. 33, No. 37, 5335-5338, 1992
C59	Jayasuriya et al., Design, Synthesis, and Activity of Membrane-Disrupting Bolaphiles," <u>J. Am. Chem. Soc.</u> , 112, 5844-5850, 1990
C60	Jia et al., "Diamide Analogues of Phosphatidylcholine as Potential Anti-AIDS Agents," <u>J. Chem. Soc.</u> , 2521-2523, 1993.
C61	Kakiuchi N. et al., "Non-peptide Inhibitors of HCV Serine Proteinase," <u>J. FEBS Letters</u> , 421:217-220, 1993
C62	Kasnar, B. et al., "Synthesis of 2',3'-Dideoxy- and 3'-Azido-2',3'-Dideoxy-Pyridazine Nucleosides as Potential Antiviral Agents," <u>Nucleosides & Nucleotides</u> , 13(1-3), pp. 459-479, 1994
C63	Kawana, F. et al., "Inhibitory Effects of Antiviral Compounds on Respiratory Syncytial Virus Replication In Vitro," <u>Antimicrob Agents Chemother.</u> , August 31, (8):1225-30, 1987
C64	Korba, B. E. et al., "Use of a Standardized Cell Culture Assay to Assess Activities of Nucleoside Analogs Against Hepatitis B Virus Replication," <u>Antiviral Research</u> , 19, 55-70, 1992
C65	Krugner-Higby, L., et al., "Membrane-Interactive Phospholipids Inhibit HIV Type 1-Induced Cell Fusion and Surface gp160/gp120 Binding to Monoclonal Antibody," <u>AIDS Research and Human Retroviruses</u> , Vol. 11, 705-712, 1995

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		ATTY DOCKET NO.	APPLICATION NO
		053665-5010-02	10/478,738
		APPLICANT	
		Louis S. KUCERA et al.	
		FILING DATE	GROUP
		December 30, 2003	Not Available
C66	Krugner-Higby, L. A. et al., "Novel Membrane Interactive Ether Lipid Analogs Inhibit HIV-1 Glycoprotein Interaction with CD4 ⁺ Cells," Abstract 321, <u>32nd Interscience Conf. on Antimicrobial Agents and Chemotherapy</u> , Anaheim, 164, 11-14 Oct. 1992		
C67	Kucera, L. S., et al., "Activity of Triciribine and Triciribine-5'-Monophosphate Against Human Immunodeficiency Virus Types 1 and 2k" <u>Aids Research and Human Retroviruses</u> , Vol. 9, No. 4, pp. 307-314, 1993		
C68	Kucera, "Effect of Membrane-Active Ether Lipid (EL) Analogues on Human Immunodeficiency Virus Production Measured by Plaque Assay," <u>Annals of the New York Academy of Sciences</u> , 545-548, 26 Dec. 1990		
C69	Kucera, "Inhibition of HIV-1 Plaque Formation by a Novel Class of Membrane-Active Ether Lipid Analogs," <u>International Conference on AIDS</u> , Abstract No. W.C.O. 21, p. 528, June 4-9, 1989		
C70	Kucera, "Inhibition of Human Immunodeficiency Virus-1 (HIV-1) by Novel Membrane Interactive Ether Lipids," Abstract No. 2470, <u>Proceedings of the American Assoc. for Cancer Res.</u> , 31, 416, March 1990		
C71	Kucera, L., et al., "Inhibition of Human Immunodeficiency Virus Envelope Glycoprotein-Mediated Cell Fusion by Synthetic Phospholipid Analogs," <u>Antiviral Research</u> , p. A260, 1985		
C72	Kucera, "Investigations on Membrane Active Ether Lipid Analogs that Alter Functional Expression of HIV-1 Induces Glycoproteins and Inhibit Pathogenesis," Abstract, <u>Innovations in Therapy of Human Viral Diseases, Symposium, Research Triangle Park</u> , 16, 6-9 Dec. 1992		
C73	Kucera, L.S. et al., " <u>In Vitro</u> Evaluation and Characterization of Newly Designed Alkylamidophospholipid Analogues as Anti-Human Immunodeficiency Virus Type 1 Agents," <u>Antiviral Chemistry and Chemotherapy</u> , 9:157-165, 1998		
C74	Kucera, L., et al., "Novel Ether Lipid Analogs of Platelet Activating Factor with Anti-Hepatitis B Virus Activity," Abstract, ICAAC Orlando, 1994		
C75	Kucera, L. et al., "Novel Membrane-Interactive Ether Lipid Analogs That Inhibit Infectious HIV-1 Production and Induce Defective Virus Formation," <u>AIDS Research And Human Retroviruses</u> , 6, 491-501, 1990		
C76	Kumar, R., et al., "Equal Inhibition of HIV Replication by Stereoisomers of Phosphatidyl-Azidothymidine – Lack of Stereospecificity of Lysosomal Phospholipase A ₁ ," <u>The Journal of Biological Chemistry</u> , 267, 20288-20292, 1992		
C77	Larder et al., <u>Science</u> 243: 1731-1734, 1989		
C78	Lister et al., "Cyclopentanoid Analogs of Phosphatidylcholine: Susceptibility to Phospholipase A ₂ ," <u>Journal of Lipid Research</u> , Vol. 29, 1297-1308, 1988.		
C79	Maccjak, D. J. et al., "Inhibition of Viral Replication by Nuclease Resistant Hammerhead Biorzymes Directed Against Hepatitis C virus RNA," <u>Hepatology</u> , 30 Abstract 995, 1999		
C80	M. MacCoss et al., "Synthesis and Biological Activity of Novel Nucleoside-Phospholipid Prodrugs," <u>4th International Round Table Nucleosides, Nucleotides and their Biological Applications</u> , Antwerp, February 4-6, p. 255-263, February 4-6, 1981		
C81	Marasco, Jr., C. J., "The Synthesis and Biological Activity of Novel Alkylglycerol Derivatives as Inhibitors of Protein Kinase C Activity, Neoplastic Cell Growth, and HIV-1 Infectivity," <u>Dissertation for Ph.D., Univ. of No. Carolina, Chapel Hill</u> , 1990		
C82	Marasco, C. J. et al., "Synthesis and Biological Activity of Novel Quaternary Ammonium Derivatives of Alkylglycerols as Potent Inhibitors of Protein Kinase C," <u>Journal of Medicinal Chemistry</u> , No. 33, pp. 985-992, March 1990		
C83	Marasco et al., "The Synthesis and Biological Testing of Alkyl Glycerols as Potential Inhibitors of Protein Kinase C," <u>American Assoc. of Pharmaceutical Scientists Abstract</u> , Vol. 9, No. 10, 1992		

EXAMINER

DATE CONSIDERED

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	053665-5010-02	10/478,738
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	Louis S. KUCERA et al.	
	FILING DATE	GROUP
	December 30, 2003	Not Available

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

C84	Marx, M. H. et al., "Synthesis and Evaluation of Neoplastic Cell Growth Inhibition of 1-N-Alkylamide Analogues of Glycero-3-Phosphocholine," <u>Journal of Medicinal Chemistry</u> , Abstract, 31, 858-863, March 28, 1988
C85	Meert, K. L. et al., "Aerosolized Ribavirin in Mechanically Ventilated Children with Respiratory Syncytial Virus Lower Respiratory Tract Disease: a Prospective Double-Blind Randomized Trial," <u>Crit Care Med.</u> , Abstract 22:566-572, April 1994
C86	Mertes et al., "Charge-Spatial Models. cis- and trans-3- and -4- Substituted Cyclohexyl Phosphates as Analogs of 2'-Deoxyuridine 5'-Phosphate," <u>J. Med. Chem.</u> , Vol. 12(5), 828-832, 1968
C87	Meyer, K. L., et al., "In Vitro Evaluation of Phosphocholine and Quaternary Ammonium Containing Lipids as Novel Anti-HIV Agents," <u>J. Med. Chem.</u> , 34, 1377-1383, 1991
C88	Meyer, "Synthesis and Evaluation of Anti-HIV-1 Ether Lipids," <u>AAPS Meeting</u> , Atlanta Abstract N. MN-510, p. S-41, 22-25 Oct. 1989
C89	Miller, R. H., et al., "Common Evolutionary Origin of Hepatitis B Virus and Retroviruses," <u>Proc. Natl. Acad. Sci. USA</u> , 83, pp. 2531-2535, April 1986
C90	Mitsuya, H. et al., "Strategies for Antiviral Therapy in AIDS," <u>Nature</u> , 325, 773-78, 26 February 1987
C91	Modest, "Combination Chemotherapy Studies with Antitumor and Antiviral Ether Lipid Analogs," <u>Abstract 2471, Proceedings of the American Assoc. for Cancer Res.</u> , 31, 416 Abstract 2471, March 1990
C92	Modest, E., et al., "Comparison of Cell Kill Induced by Two Ether Lipids in Combination with Hyperthermia," <u>Proceedings of the American Association for Cancer Research; Preclinical Pharmacology Experimental Therapeutics</u> , Vol. 31, pp. 416, Abstract 2467, March 1990
C93	Modest, E. J. et al., "Pharmacological Effects and Anticancer Activity of New Ether Phospholipid Analogs," <u>The Pharmacological Effect of Lipids III: Role of Lipids in Cancer Research</u> , (IN PRESS), pp. 330-337, 1989
C94	Molla, A. et al., "Human Serum Attenuates the Activity of Protease Inhibitors Toward Wild-Type and Mutant Human Immunodeficiency Virus," <u>Virology</u> , 250:255-262, 1998
C95	Morrey, J. D. et al., "Effects of Zidovudine on Friend Virus Complex Infection in Rfv-3 ^{7/8} Genotype-Containing Mice Used as a Model for HIV Infection," <u>Journal of Acquired Immune Deficiency Syndromes</u> , 3, 500-10, 1990
C96	Morris-Natschke, S. L. et al., "Synthesis of Phosphocholine and Quaternary Amine Ether Lipids and Evaluation of <i>in Vitro</i> Antineoplastic Activity," <u>J. Med. Chem.</u> , 36:2018-2025, 1993
C97	Morris-Natschke, S. et al., "Synthesis of Sulfur Analogues of Alkyl Lysophospholipid and Neoplastic Cell Growth Inhibitory Properties," <u>J. of Med. Chem.</u> , 29, 2114-17, 1986
C98	Mutson, M. A. et al., "Two Distinct Subtypes of Human Respiratory Syncytial Virus," <u>The Journal of General Virology</u> , 66:2111-2124, October 1985
C99	Nara, P. L. et al., "Simple, Rapid, Quantitative, Syncytium-Forming Microassay for the Detection of Human Immunodeficiency Virus Neutralizing Antibody," <u>AIDS Research and Human Retroviruses</u> , 3, 283-302, 1987
C100	Noseda, A. et al., "In Vitro Antiproliferative Activity of Combinations of Ether Lipid Analogues and DNA-interactive Agents Against Human Tumor Cells," <u>Cancer Research</u> , 48, 1788-1791, April 1, 1988

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	Louis S. KUCERA et al.	
	FILING DATE	GROUP
	December 30, 2003	Not Available

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

C101	Noseda, A. et al., "Neoplastic Cell Inhibition with New Ether Lipids Analogs," <u>Lipids</u> , 22, 878-883, Nov. 1987
C102	Ostertag, W. et al., "Induction of Endogenous Virus and of Thymidine Kinase by Bromodeoxyuridine in Cell Cultures Transformed by Friend Virus," <u>Proc. Nat. Acad. Sci. USA</u> , 71, 4980-85, Dec. 1974
C103	Pacheco, D. Y. et al., "Mechanisms of Toxicity of Hepsulfam in Human Tumor Cell Lines," Abstract 2446, <u>Proceedings of the American Association for Cancer Research</u> , 81, 412, May 1990
C104	Painuly et al., "Preparative HPLC of an Experimental Anti-HIV Analogue of AZT: Azidothymidine Monophosphate Diglyceride (AZT-MP-DG)," <u>Journal of Liquid Chromatography</u> , 16(11), 2237-2248, 1993
C105	Pajouhesh et al., "Synthesis of Polar Head Group Homologs of All-trans-cyclopentano-phosphatidylcholine, Phosphatidyl-N, N-Dimethylethanolamine, and Phosphatidylethanolamine," <u>Journal of Lipid Research</u> , Vol. 25, 294-303, 1984
C106	Piantadosi, C. et al., "Synthesis and Evaluation of Novel Ether Lipid Nucleoside Conjugates for Anti-HIV-1 Activity," <u>J. Med. Chem.</u> , 34, 1408-14, 1991
C107	Pidgeon, C. et al., "Anti-HIV Drugs Conjugated to the Glycerobackbone of Phospholipids," <u>The Journal of Biological Chemistry</u> , 7773-7778, 1993
C108	Pidgeon C. et al., "Novel Acylated Phospholipid Drugs for AIDS," <u>Chemical Abstract</u> , 120:69591, 1994
C109	The PREVENT Study Group, "Reduction of Respiratory Syncytial Virus Hospitalization Among Premature Infants and Infants with Bronchopulmonary Dysplasia Using Respiratory Syncytial Virus Immune Globulin Prophylaxis," <u>Pediatrics</u> , 99:93-99, 1997
C110	Poiesz et al., <u>Proc. Natl Acad. Sci. U.S.A.</u> 77: 7415-7419, 1980
C111	Prince, G. A., "The Pathogenesis of Respiratory Syncytial Virus Infection in Cotton Rats," <u>Am J Pathol Abstract.</u> , 93:771-91, 1978
C112	Qasim M.A. et al., "Interscaffolding Additivity. Association of P ₁ Variants of Eglin c and of Turkey Ovomucoid Third Domain with Serine Proteinases," <u>Biochemistry</u> 36:1598-1607, 1997
C113	Qiu et al., "Membrane Properties of Antiviral Phospholipids Containing Heteroatoms in the Acyl Chains," <u>Biochemistry</u> , 33(4), 960-72, 1994
C114	C. Raetz et al., "Phospholipid Derivative of Cytosine Arabinoside and its Conversion to Phosphatidylinositol by Animal Tissue," <u>Science</u> 196, 303-304, 1977
C115	Richman et al., <u>New England Journal of Medicine</u> 317: 192-197, 1987
C116	Rodriguez, W. J. et al., "Prospective Follow-Up and Pulmonary Functions from a Placebo-Controlled Randomized Trial of Ribavirin Therapy in Respiratory Syncytial Virus Bronchiolitis," <u>Arch Pediatr Adolesc Med</u> , 153:469-474, May 1999
C117	Runge et al., "Destruction of Human solid Tumors by Alkyl Lyso Phospho Lipids," <u>Journal of the National Cancer Institute</u> , Vol. 64, 1301-1306, 1980
C118	Sable, C. A. et al., "Orthomyxoviral and Paramyxoviral Infections in Transplant Patients," <u>Infect Dis Clin North Am</u> , Abstract, 9:987-1003, December 1995
C119	Sarin, P. S. et al., "Effects of a Novel Compound (AL 721) on HTLV-III Infectivity in Vitro," <u>The New England Journal of Medicine</u> , Vol. 313, 1289-90, Nov. 14, 1985
C120	Scolaro M. J. et al., "Inhibition of Virus Replication with Oligonucleotides," <u>Chemical Abstracts</u> , 117:124476, 1992
C121	Sidoti et al., "Cytostatic Activity of New Synthetic Anti-Tumor AZA-Alkyllysophospholipids," <u>Int. J. Cancer</u> 51, 712-717, 1992
C122	Small, "Characterization of Cells Sensitive and Resistant to ET-18-OCH ₃ ," Abstract 2447, <u>Proceedings of the American Assoc. for Cancer Res.</u> , 31, 416, March 1990

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		053665-5010-02	10/478,738
		APPLICANT	
		Louis S. KUCERA et al.	
		FILING DATE	GROUP
		December 30, 2003	Not Available
C123	Smith, D. W. et al., "A Controlled Trial of Aerosolized Ribavirin in Infants Receiving Mechanical Ventilation for Severe Respiratory Syncytial Virus Infection," <u>New England Journal of Medicine</u> , 325:24-29, July 1991		
C124	Steim et al., "Lipid Conjugates of Antiretroviral Agents. I. Azidothymidine-Monophosphate-Diglyceride: Anti-HIV Activity, Physical Properties, and Interaction with Plasma Proteins," <u>Biochemical and Biophysical Research Communications</u> , Vol. 171, No. 1, 451-457, 1990		
C125	Sudo K. et al., "Inhibitory Effects of Podophyllotoxin Derivatives on Herpes Simplex Virus Replication," <u>Antiviral Chemistry and Chemotherapy</u> 9:186, 1998		
C126	Sudo K. et al., "Establishment of an In Vitro System for Screening Hepatitis C Virus Protease Inhibitors Using High Performance Liquid Chromatography," <u>Antiviral Research</u> 32:9-18, 1996		
C127	Sunamoto, J. et al., "Induction of Cytotoxic T Cell," <u>Chemical Abstracts</u> , 117:68365, 1992		
C128	Surbone et al., <u>Annals of Internal Medicine</u> , 108: 534-540, 1988		
C129	Surles, J. R. et al, "Multigram Synthesis of 1-Alkylamido Phospholipids," <u>Lipids</u> , 28, 55-57, 1993		
C130	Swayze, E. E., et al., "Synthesis of 1-(2-Aminopropyl) Benzimidazoles, Structurally Related to the Tibo Derivative R82150, With Activity Against Human Immunodeficiency Virus," <u>Bioorganic & Medical Chemistry Letters</u> , Vol. 3, No. 4, pp 543-546, 1993		
C131	Takeshita N. et al., "An Enzyme-Linked Immunosorbent Assay for Detecting Proteolytic Activity of Hepatitis C Virus Proteinase," <u>Analytical Biochemistry</u> 247:242-246, May 1, 1997		
C132	Tarnowski et al., "Effect of Lyso Lecithin and Analogs on Mouse Ascites," <u>Cancer Research</u> , Vol. 38, 339-344, 1978		
C133	Thompson, J., et al., "Phospholipid Analog Inhibition of Human Immunodeficiency Virus Envelope Glycoprotein-Mediated Cell Fusion," <u>Abstracts of the 2nd National Conference on Human Retroviruses</u> , Session 18, 1995		
C134	Tiollais, P., et al., "Hepatitis B. Virus," <u>Scientific American</u> , 116-123, April 1991		
C135	Van Wijk et al., "Synthesis and Antiviral Activity of 3'-azido-3'-deoxythymidine Triphosphate Distearoylglycerol: A Novel Phospholipid Conjugate of the Anti-HIV Agent AZT," <u>Chemistry and Physics of Lipids</u> , 70, 213-222, 1994		
C136	Van Wijk, G. M. et al., "Spontaneous and Protein-Mediated Intermembrance Transfer of the Antiretroviral Liponucleotide 3'-Deoxythymidine Diphosphate Diglyceride," <u>Biochemistry</u> , 31, 5912-5917, June 30, 1992		
C137	Vos, G. D. et al., "Treatment of Respiratory Failure Due to Respiratory Syncytial Virus Pneumonia with Natural Surfactant," <u>Pediatr Pulmonol.</u> , Abstract 22:412-415, December 1996		
C138	Wang, E. E. et al., "Pediatric Investigators Collaborative Network on Infections in Canada (PICNIC) Prospective Study of Risk Factors and Outcomes in Patients Hospitalized with Respiratory Syncytial Viral Lower Respiratory Tract Infection," <u>Abstract, J Pediatr</u> , 126:212-219, February 1995		
C139	Whimbey, E. et al., "Community Respiratory Virus Infections Among Hospitalized Adult Bone Marrow Transplant Recipients," <u>Abstract, Clin Infect Dis.</u> , 22:778-782, May 1996		
C140	Yamaue, H. et al., "Chemosensitivity Testing with Highly Purified Fresh Human Tumor Cells with the MTT Colorimetric Assay," <u>Abstract, Eur J Cancer</u> , 27:1258-1263, 1991		
C141	Yanagawa, H. et al., "Spontaneous Formation of Superhelical Strands," <u>Journal of the American Chemical Society</u> , 111, 4567-70, June 21, 1989		
C142	Yarchoan, R. et al., "Therapeutic Strategies in the Treatment of AIDS," <u>Annual Reports in Medicinal Chemistry</u> , Vol. 23, 253-263, 1988		

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.